

REMARKS

Claims 1-14 are pending. By this Amendment, Fig. 7 is corrected, the specification is amended, and claims 1-3, 6, 9-12, and 14 are amended. Reconsideration based on the above amendments and the following remarks is respectfully requested.

I. The Drawings Satisfy All Formal Requirements

The Office Action objects to the drawings for failing to show a DBR laser. Figure 7 has been corrected to show a laser diode (LD). Additionally, the specification has been amended to correct typographical errors. No new matter has been entered. Withdrawal of the objection to the drawings is respectfully requested.

II. The Claims Satisfy All Formal Requirements

The Office Action objects to claims 1, 6, 10, and 12 due to minor informalities. By this Amendment, claims 1, 6, 10 and 12 are amended to obviate the objection. Withdrawal of the objection to the claims is respectfully requested.

III. The Claims Satisfy the Requirements of 35 U.S.C. §112

The Office Action rejects claims 3 and 6-14 under 35 U.S.C. §112, second paragraph as indefinite. Claims 3, 6, 10, and 12 are amended to obviate the rejection. Accordingly, withdrawal of the rejection under 35 U.S.C. §112, second paragraph, is respectfully requested.

IV. The Claims Define Allowable Subject Matter

The Office Action rejects claims 1-14 under 35 U.S.C. §103(a) as unpatentable over Applicants' prior art Figure 2 in view of "Integration of Waveguide-Type Wavelength Demultiplexing Photodetectors by the Selective Intermixing of an InGaAs-InGaAsP Quantum-Well Structure" to Yeo et al. ("Yeo"). This rejection is respectfully traversed.

Applicants' prior art Figure 2 and Yeo, taken separately or in combination, do not disclose, teach or suggest "allowing the light outputted from the single light source to

maintain the reference wavelength," and "the first wavelength photocurrent graph and the second wavelength photocurrent graph are obtained based on a peak of 1s exciton," as recited in claim 1.

Yeo discloses a method of demultiplexing two widely separated wavelengths using QCSE photodetectors as optical filters. The two QCSE photodetectors demultiplex two wavelengths as substitutes for two filters, while more QCSE photodetectors are necessary to demultiplex more wavelengths. However, Yeo does not disclose, teach or suggest using QCSE photodetectors to allow light outputted from the single light source to maintain the reference wavelength, or obtaining the first wavelength photocurrent graph and the second wavelength photocurrent graph based on a peak of 1s exciton.

Further, the Applicants prior Figure 2 and Yeo, taken separately or in combination, do not disclose, teach or suggest "an intensity of the light outputted from the single light source is maintained at a constant level," as recited in claim 5. The QCSE photodetectors of Yeo are merely used as optical filters instead of maintaining light intensity.

Applicants prior Figure 2 and Yeo, taken separately or in combination, do not disclose, teach or suggest "a first QCSE photodetector and a second QCSE photodetector," and "a power stabilizing driving control part ...thereby stabilizing wavelength and intensity of the laser beam outputted from the... LD," as recited in claims 6, 10, and 12. Neither Applicants prior art Figure 2 nor Yeo discloses, teaches or suggests using QCSE photodetectors to stabilize wavelength and intensity of the laser beam outputted from the LD. Accordingly, withdrawal of this rejection is respectfully requested.

For at least these reasons, it is respectfully submitted that independent claims 1, 5, 6, 10 and 12 are distinguishable over the applied art. The remainder of the claims that depend from independent claims 1, 6, 10 and 12 are likewise distinguishable over the applied art for at least the reasons discussed above, as well as for the additional features they recite.

V. Conclusion

For at least these reasons, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1-14 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact Applicants' attorney at the telephone number listed below.

Respectfully submitted,



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